

## Project Proposal – Kaden Carr, Gilbert Green

For our project we intend to create a website to display data, store data, textual information for accounts, numeric information, image, and video data. The users can create an account and add information to the account such as user information, credit card information, or media data. The website is a mock of a business or other organization that distributes data to users through a user interface with subscription fees. We intend to store data through the cloud by utilizing AWS cloud services. The server would be on premise while pulling data from cloud storage. After the server is established the next step of our project would be to identify the vulnerabilities, how these vulnerabilities can be exploited, and systems to secure such vulnerabilities from attack.

In order to build the following system, we would have to research the use of AWS from the cloud to store various types of information as well as how users could access this data in real time. The cloud services shall store SQLite data as well as object data from images/video files. Additionally, frameworks such as Flask will be researched for the implementation and building of our website. After the website has been created, research will go into finding the best practices to ensure security in web servers to ensure no vulnerabilities exist.

Research and topics for the project include:

- Amazon Web Services
- Dedicated server hosting
- Amazon Aurora
- Amazon S3
- Flask (Python/Html/CSS)
- Network security analysis
- Ethical computer hacking
- Real time streaming